Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A self-compacting, fiber-reinforced engineered cementitious composite comprising:

cementitious material comprising:

cement and sand;

at least one polymeric thickener;

at least one superplasticizer; and

water; and

from 0.5 to 10 volume % of hydrophilic reinforcing fibers <u>having a modulus</u> (E) of about 35-50 GPa and a percent elongation of about 3-20%.

- 2. (Original) The composite of claim 1 wherein the hydrophilic fibers comprise polyvinyl alcohol fibers.
 - 3. (Original) The composite of claim 1 further comprising hydrophobic fibers.
- 4. (Original) The composite of claim 1 wherein the hydrophilic fibers have a tenacity of about 1000 2500 MPa.
 - 5. (Cancelled).
- 6. (Currently Amended) The composite of claim 5 wherein the hydrophilic fibers have a modulus (E) of about [[30 60]] <u>40 45</u> GPa.
- 7. (Original) The composite of claim 6 wherein the hydrophilic fibers have a diameter of about 10 60 μ m.

- 8. (Original) The composite of claim 7 wherein the hydrophilic fibers have a length of about 5 30 mm.
- 9. (Original) The composite of claim 1 wherein the hydrophilic fibers are coated with an oiling agent.
- 10. (Currently Amended) A method of making a composite structural material (engineered cementitious composite), said method comprising:

mixing from 0.5 to 10 volume % of hydrophilic reinforcing fibers <u>having a modulus (E) of about 35-50 GPa and a percent elongation of about 3-20%</u> with cementitious material comprising cement and sand, at least one polymeric thickener, at least one superplasticizer, and water.

- 11. (Original) The method of claim 10 wherein the hydrophilic fibers comprise polyvinyl alcohol fibers.
- 12. (Original) The method of claim 10 further comprising hydrophobic fibers.
- 13. (Original) The method of claim 10 wherein the hydrophilic fibers have a tenacity of about 1000 2500 MPa.
- 14. (Currently Amended) The method of claim 13 wherein the hydrophilic fibers have a modulus (E) of about [[30 60]] 40 45 GPa.
- The method of claim 14 wherein the hydrophilic fibers have a diameter of about 10 60 μ m.
- 16. (Original) The method of claim 15 wherein the hydrophilic fibers have a length of about 5 30 mm.

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- 17. (Original) The method of claim 10 wherein the composite structural material is case without the use of any external vibration.
- 18. (Original) The method of claim 16 wherein the composite structural material is case without the use of any external vibration.
- 19. (Currently Amended) The method of claim [[9]] 10 wherein the hydrophilic fibers are coated with an oiling agent.
- 20. (Currently Amended) A method of making a composite structural material (engineered cementitious composite), said method comprising:
 - 1) mixing powders of dry cement, sand, fly ash and defoamer;
 - 2) mixing the dry powder mixture of 1) with water;
- mixing an aqueous solution of cellulose compound with the mixture of 2);
- mixing an aqueous solution of superplasticizer with the mixture of 3); and
- 5) mixing hydrophilic fibers <u>having a modulus (E) of about 35-50 GPa and</u> a percent elongation of about 3-20% with the mixture of 4).
- 21. (Original) The method of claim 20 wherein the components and the mixture of 2) are mixed for about 2 minutes, wherein the components of mixture 3) are mixed for about 5 to 10 minutes, and wherein the components of mixture 4) are mixed for about 2 minutes.
- 22. (Original) The method of claim 21 wherein additional water is mixed with the mixture of 5).
- 23. (Original) The method of claim 20 wherein the reinforcing hydrophilic fibers are pre-soaked in water before being mixed with the mixture of 4).

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24. (Original) The method of claim 20 wherein the hydrophilic fibers are in random, discontinuous form.

- 25. (Original) The method of claim 20 wherein the hydrophilic fibers are provided in a bundle form.
- 26. (New) The composite of claim 1 wherein the components are present in sufficient amounts such that when the composite is cured the resulting cured product has a first crack strength of 2.1-2.6 MPa and an ultimate tensile strength of 2.8-3.8 MPa.
- 27. (New) The composite of claim 26 wherein the components are present in sufficient amounts such that when the composite is cured the resulting cured product has a tensile strain capacity of 3-7.5%.
- 28. (New) The composite of claim 1 wherein the components are provided in such amounts that the composite has a water-cement ratio of about 25 wt% to about 60 wt%, a sand-cement ratio of about 20 wt% to about 160 wt%, a thickener-cement ratio of about 0.001 wt% to about 0.5 wt%, and a superplasticizer-cement ratio of about 0.1 wt% to about 0.5 wt%.
- 29. (New) The composite of claim 9 wherein the fibers have been coated with 0.5-1.5 weight percent of the oiling agent.
- 30. (New) The composite of claim 9 wherein the oiling agent comprises poly(oxymethylene).